ENVIRONMENTAL CHEMISTS

Date of Report: 12/05/02 Date Received: 11/21/02

Project: Metro Self Monitor, PO# M89595

Date Extracted: 11/25/02 Date Analyzed: 11/25/02

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

Sample ID	Chromium	Copper	<u>Nickel</u>	Zinc
Laboratory ID				
M89595 211168-01	0.29	0.19	0.17	< 0.05
211168-01		Carthaga	lia Sadib	
Method Blank	<0.05	<0.05	<0.05	<0.05

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Date of Report: 12/05/02 Date Received: 11/21/02

Project: Metro Self Monitor, PO# M89595

QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 211132-01 (Duplicate)

					10 m TV 2 m		71. 1. 1.	Relative	The state of	
			Reporting		Sample	I	Duplicate	e Percent	Acceptan	ice
	Analyte	The State of the State	Units		Result	1991	Result	Differenc	e Criteria	a
),	Chromium		mg/L (ppm)	310	< 0.05		< 0.05	nm	0-20	
	Copper		mg/L (ppm)		1.6		1.6	0	0-20	
	Nickel	All March	mg/L (ppm)	1.2	< 0.05		< 0.05	nm	0-20	
	Zinc		mg/L (ppm)		2.0		1.9	5	0-20	

Laboratory Code: 211132-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recov	ery Acceptance
Analyte	Units	Level	Result	MS	Criteria
Chromium	mg/L (ppm)	2	< 0.05	99	80-120
Copper	mg/L (ppm)	2	1.6	101	80-120
Nickel	mg/L (ppm)	4	< 0.05	96	80-120
Zinc	mg/L (ppm)	2	2.0	94	80-120

Laboratory Code: Laboratory Control Sample

	Reporting	Spike 9	% Recove	ery % Recov	ery A	Acceptanc	e .	RPD	
Analyte	Units	Level	LCS	LCSI)	Criteria	(Li	mit 20)	
Chromium	mg/L (ppm)	2	98	96		80-120		1	
Copper	mg/L (ppm)	2	102	99		80-120	17910	3	
Nickel	mg/L (ppm)	4	99	96		80-120		3	
Zinc	mg/L (ppm)	2	100	96		80-120		4	

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

December 5, 2002

DUPLICATE COPY

INVOICE # 02ACU1205-3

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M89595 - Results of testing requested by Gerry Thompson for material submitted on November 21, 2002.

FEDERAL TAX ID #(b) (6)

SAMPLE CHAIN OF CUSTODY

ME 11/21/02 AI3

Send Report To G. Thompson	SAMPLERS (signodare)	
Company ALASKAN COPPER WORKS	PROJECT NAME/NO.	PO#
Address 628 S. HANTERD ST	METRO SEES Moniton	W82222
City, State, ZIP SEATTLY WA 98134	REMARKS	-
Phone # 206-382-8379 Fax # 206-882-4809		

Page #	of	
TURNAROU	JND TIME	\neg
☐ Standard (2 We	eeks)	
□ RUSH		-
Rush charges aut	horized by:	
SAMPLE D	ISPOSAL	ᅱ
☐ Dispose after 3	0 days	
☐ Return sample		1
I Will call with i	netwistians	2

						ANALYSES REQUESTED										
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	, # of containers	TPH-Dièsėl	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	ORCUNIZA				Notes
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Friedman	& Bruy	a, Inc.
3012 16th	Avenue	West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	G. Thompson	ACN	11/21/02	1:271
Received by:	Laura Hooper	FBI .	1	V.
Relinquished by:	7			
Received by:				

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

December 5, 2002

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on November 21, 2002 from your Metro Self Monitor, PO# M89595 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures ACU1205R.DOC